

**ENVIRONMENTAL SECURITY IN ASEAN:  
CHALLENGE AND RESPOND**

**By  
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**UNIVERSITI UTARA MALAYSIA**

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**ENVIRONMENTAL SECURITY IN ASEAN:  
CHALLENGE AND RESPOND**

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## **ABSTRAK**

Keselamatan alam sekitar di Asia Tenggara menjadi perkara penting bagi pembangunan rantau ini yang bergantung pada kekayaan alamnya. Sebagai akibat dari pembangunan, rantau Asia Tenggara menghadapi beberapa kemusnahan alam sekitar yang boleh merosakkan eksosistem di rantau ini. ASEAN sebagai institusi serantau di Asia Tenggara menjadi platform untuk negara-negara anggota dalam mengatasi masalah pencemaran alam sekitar. Beberapa projek dan program telah dilakukan dalam usaha untuk mencapai objektif. Berkaitan dengan hal tersebut, kertas projek ini tertumpu kepada kemusnahan alam sekitar di Asia Tenggara beserta projek dan program di bawah ASEAN dalam perlindungan alam sekitar. Di sisi lain, halangan di atas kerjasama alam sekitar akan dibincangkan dalam kes penebangan hutan di Indonesia sebagai contoh kes.

## **ABSTRACT**

Environmental security in Southeast Asia become important thing as the development of the region depends on the natural resources. As the consequences of the development, Southeast Asia region face several environmental degradation which may harm the ecosystem within the region. ASEAN as the regional institution within Southeast Asia region become the platform for the member states to overcome the environmental degradation. Several projects and programs are held in order to achieve the objectives. This paper project is focused on the environmental degradation within Southeast Asia and also the projects and programs under ASEAN on the environmental protection. In the other hand, the obstacles on the environmental cooperation will be discussed using the case of deforestation in Indonesia.

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# CHAPTER I

## INTRODUCTION

### 1.1.Introduction

Environmental security is closely related with the human and the biological life inside. And because of that, the problem of environmental security will affected much worse that able to threat both of national security and regional also international stability. The changing view of the importance of environmental problems was also influenced by the loss that will be borne. Moreover, the effect of natural disaster will not depend on the national border. The failure to protect the environment or lack of environment management may cause the conflict which is not impossible to become a greater violence conflict in domestic and even in international arena. But in the other hand, it will also increase the interaction between states in order to manage and help each other to prevent the bigger threat of environmental problems.

Southeast Asia region is indeed the richest natural resources compared with the other regions. Even tough Southeast Asia country just cover 3 per cent of total world's surface, but 20 per cent of animal and plants species are live in this region.<sup>1</sup> Indonesia, Malaysia and Philippines are including in three of the world's mega diversity countries which all of these state located in Southeast Asia region. Not only that, from 25 world's biodiversity hotspot that has been recognize, seven

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<sup>1</sup> Sajise, Percy E., Ticsay, Mariliza V., Saguiguit, Gil C. Jr. (2010). *Moving Forward : Southeast Asian Prespectives on Climate Change and Biodiversity*. Singapore : Institute of Southeast Asian Studies. p:11.

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## REFERENCES

- . (n.d.). *CIA World Factbook*. Retrieved September 14, 2011 in <https://www.cia.gov/library/publications/the-world-factbook/rankorder/2119rank.html>.
- . (n.d.). Environmental Security in Asia . In *Institute for Security & Development Policy*. Retrieved September 19, 2011, from <http://www.isdp.eu/programs-a-initiatives/asia-program/asia-projects/environmental-security-in-asia.html>
- . (n.d.) Indonesia Environment. *The World Bank*. Retrieved November 26, 2011 from <http://go.worldbank.org/6BWS3W7CZ0>
- . (n.d). Indonesia-Malaysia Sepakati Berantas Pembalakan Liar, *Antara News*. Retrieved November 21, 2011 from <http://dephan.go.id/modules.php?name=News&file=article&sid=7107>
- . (n.d.). *Kebakaran Hutan Indonesia dan Upaya Penanggulangannya*. Retrieved November 20, 2011 from <http://dishut.jabarprov.go.id/data/arsip/kebakaran%20hutan.doc>.
- . (n.d.). Lembar Fakta Hutan Indonesia : Penyerap atau Pelepas Emisi Ga. In *World Wild Fund*. Retrieved November 19, 2011 from [http://assets.wwf.or.id/wwf-web-1.bluegecko.net/downloads/lembar\\_fakta\\_deforestasi\\_tanpa\\_foto.pdf](http://assets.wwf.or.id/wwf-web-1.bluegecko.net/downloads/lembar_fakta_deforestasi_tanpa_foto.pdf).
- . (n.d.). *REDD Apakah itu? Pedoman CIFOR tentang Hutan, Perubahan Iklim dan RED*. Retrieved November 26, 2011 from [http://www.cifor.org/publications/pdf\\_files/media/MediaGuide\\_REDD\\_Indonesian.pdf](http://www.cifor.org/publications/pdf_files/media/MediaGuide_REDD_Indonesian.pdf).
- . (n.d.). Section IV : Means of implementation, Chapter 38. In *Agenda 21*. Retrieve November 1, 2011 from [http://www.un.org/esa/dsd/agenda21/res\\_agenda21\\_38.shtml](http://www.un.org/esa/dsd/agenda21/res_agenda21_38.shtml).

- . (n.d). TNIU AD Temukan Bukti Warga Malaysia Lakukan Pembalakan Liar. *Antara News*. Retrieved November 21, 2011 from <http://dephan.go.id/modules.php?name=News&file=article&sid=8284>.
- . (1997). ASEAN regional centre for biodiversity conservation. Retrieved November 1, 2011 from <http://faspo.denr.gov.ph/knowledge/lessons%20learned%20faps/Lessons%20Learned-ARCBC.pdf>
- . (November 29,2004). ASEAN leaders sign Vientiane Action of Program. In *China View*. Retrieved November 4, 2011 from [http://news.xinhuanet.com/english/2004-11/29/content\\_2272657.htm](http://news.xinhuanet.com/english/2004-11/29/content_2272657.htm).
- . (2009). David Suzuki (Canada). The Right Livelihood Award. Retrieved August 29, 2011 from <http://www.rightlivelihood.org/suzuki.html>
- . (August 10, 2009). RI and RP urged to adopt ASEAN haze deal. *Jakarta Post*. Retrieved November 24, 2011 from <http://www.thejakartapost.com/news/2009/10/08/ri-and-rp-urged-adopt-asean-haze-deal.html>.
- . (October 24, 2010). Haze highlights weak ASEAN cooperation: Analysts. *Jakarta Globe*. Retrieved November 25, 2011 from <http://www.thejakartaglobe.com/home/haze-highlights-weak-asean-cooperation-analysts/402961>.
- . (2011). David Attenborough the life series. *BBC Books*. Retrieved August 29, 2011 from <http://www.davidattenborough.co.uk/biography/>
- . (March 7, 2011). Indonesia to ratify ASEAN agreement on trans-boundary haze pollution. *Antara News*. Retrieved November 21, 2011 from <http://www.antaranews.com/en/news/68888/indonesia-to-ratify-asean-agreement-on-trans-boundary-haze-pollution>.
- . (June 6, 2011). Konsumsi Listrik Indonesia Terendah di Asean. *Jawa Pos National Network*. Retrieved September 20, 2011 from

<http://www.jpnn.com/read/2011/06/06/94125/Konsumsi-Listrik-Indonesia-Terendah-di-Asean->

- . (October 13, 2011). Press Release : 6<sup>th</sup> Meeting of The COP to the ASEAN Agreement on Transboundary Haze Pollution. *SG Press Centre*. Retrieved November 26, 2011 from [http://www.news.gov.sg/public/sgpc/en/media\\_releases/agencies/mewr/press\\_release/P-20101013-2.html](http://www.news.gov.sg/public/sgpc/en/media_releases/agencies/mewr/press_release/P-20101013-2.html)

2010 World Population Data Sheet (2010). in *Population Reference Bureau*. pp.1-19. Retrieved September 15, 2011 in [www.prb.org/pdf10/10wpds\\_eng.pdf](http://www.prb.org/pdf10/10wpds_eng.pdf).

Adinugroho, Wahyu Catur. (2009). *Penebangan Liar (Illegal Logging), Sebuah Bencana Bagi Dunia Kehutanan Indonesia yang Tak Kunjung Terselamatkan*, Paper presented for Institut Pertanian Bogor. Retrieved November 23, 2011 from <http://wahyukdephut.files.wordpress.com/2009/10/penebangan-liar-sebuah-bencana-bagi-dunia-kehutanan-yang-tak-kunjung-terselesaikan.pdf>.

Apanay, Ira Karen. (June 23, 2008). UN Targets Zero Deforestation in ASEAN by 2020. *Manila Times*. Retrieved November 23, 2011 from <http://mailman.anu.edu.au/pipermail/enviro-vlc/2008-June/000312.html>.

ASEAN. (2002). *Report to the World Summit on Sustainable Development*. Jakarta: ASEAN Secretariat. pp. 1-70.

ASEAN Agreement on Transboundary Haze Pollution (n.d.). In *ASEAN Official Websites*. Retrieved November 24, 2011 from [http://www.aseansec.org/pdf/agr\\_haze.pdf](http://www.aseansec.org/pdf/agr_haze.pdf).

ASEAN Cooperation Plan on Transboundary Pollution (2003) In *ASEAN Official Websites*. Retrieved November 21, 2011 from <http://www.aseansec.org/8938.htm>.

Baylis, James J. Wirtz, Eliot A. Cohen, Colin S. Gray (eds). (2007). *Strategy in the Contemporary World*. Oxford: Oxford University Press.



- Biodiversity Hotspots. (2005). In *Conservation International Foundation*.  
Retrieved November 24, 2011 from  
<http://www.biodiversityhotspots.org/Pages/default.aspx>.
- Butler, Rhett A. (n.d.). Indonesia Forest Information and Data. In *Mongabay.Com*.  
Retrieved November 21, 2011 in  
<http://rainforests.mongabay.com/deforestation/2000/Indonesia.htm>.
- . (February 5, 2006). Asian/IndoMalayan Realm. In *Mongabay.Com*.  
Retrieved November 21, 2011 in  
<http://rainforests.mongabay.com/20asian.htm>.
- Buzan, Barry & Ole Waver. (2003). *Regions & Powers : The structure of international security*. United Kingdom : Cambridge University Press.
- Borongan, G., & Okumura, S,. (2010). *Municipal Waste Management Report : Statues-quo and issues in Southeast and East Asian Countries*. (Report for UNEP Regional Resource Center for Asia and the Pacific). pp. 1-43.  
Retrieved September 15, 2011 from <http://www.environment-health.asia/userfiles/file/Municipal%20Waste%20Report.pdf>.
- Dermott, Matthew Mc. (August 28, 2009). Indonesia Hints at 40% Emissions Reductions by 2030 – If International Support is Forthcoming. *Treehugger*.  
Retrieved November 25,2011 from <http://www.treehugger.com/corporate-responsibility/indonesia-hints-at-40-emissions-reductions-by-2030-if-international-support-is-forthcoming.html>.
- Dunne, Tim. Kurki, Milja and Smith, Steve. (2010). *International Relations Theories : Discipline and diversity* (2<sup>nd</sup> ed). New York : Oxford University Press.
- Elliott, Lorraine. (2003). ASEAN and environmental cooperation: norms, interests and identity. *The Pasific Review*,16(1). Canberra : Routledge Taylor & Francis Group. pp.29-52. Retrieved November 3, 2011 from  
<http://dx.doi.org/10.1080/0951274032000043235>.

- Environment Division of ASEAN Secretariat. (2010). *Haze Online Action*. Retrieved November 24, 2011 from <http://haze.asean.org/hazeagreement/status>.
- Florano, Ebinezer R. (2004). *Regional Environmental Cooperation without Tears or Fear: The Case of the Asean Regional Haze Action Plan*. Paper presented at International Environmental Governance Conference, Paris, 15 -16 March 2004. Retrieved November 21, 2011 from <http://cleanairinitiative.org/portal/node/2335>
- Gingold, B. & Stolle, F. (June 17, 2011). Indonesia's Forest Moratorium. *Mongabay.com*. Retrieved November 20, 2011 from [http://news.mongabay.com/2011/0617-indonesia\\_moratorium\\_wri.html](http://news.mongabay.com/2011/0617-indonesia_moratorium_wri.html).
- Goh, Gillian. (2003). The 'Asean Way' Non-Intervention and ASEAN's Role in Conflict Management. *Stanford Journal of East Asian Affairs*, 3. (1). pp. 113-118. Retrieved November 2, 2011 from <http://www.stanford.edu/group/sjeaa/journal3/geasia1.pdf>.
- Goldstein, J.S. & Pevenhouse, J.C. (2008). *International relations* (8<sup>th</sup>ed). United States: Pearson Longman.
- Hanoi Plan Actions*. (1999). In *ASEAN Official Websites*. Retrieved November 14, 2011 from <http://www.aseansec.org/10382.htm>.
- Hermosilla, A.C., & Fay, Chip. (2005). *Strengthening Forest Management in Indonesia Through Land Tenure Reform: Issues and Framework for Action*. Indonesia : Forest Trends.
- . (2006). *Memperkokoh Pengolahan Hutan Indonesia melalui Pembaruan Penguasaan Tanah*. Bogor : World Agroforestry Centre. Retrieved November 24, 2011 from [http://www.rightsandresources.org/documents/files/doc\\_1541.PDF](http://www.rightsandresources.org/documents/files/doc_1541.PDF)
- Huong, Ha,. (1999). Environmental policies and natural resource management in Southeast Asia. *Global Nest : The International Journal* 1(3). pp. 217-225.

Greece: Global Nest. Retrieved in September 17, 2011 from  
[http://www.gnest.org/journal/Vol1\\_No3/Huong.pdf](http://www.gnest.org/journal/Vol1_No3/Huong.pdf).

Islam, S., Clarke, Matther., Choi, Sammy., Jolley, A., & Sheehan, P. (2009).  
Energy Production and Use. In Louis Lebel, Anond Snidvongs, Chen-  
Tung Arthur Chen & Rajesh Daniel (eds). *Critical States: Environmental  
Challenges to Development in Monsoon Southeast Asia*. pp. 51-62 .  
Malaysia: Strategic Information and Research Development.

Joewono, Benny N. (April 3, 2011). Banjir Thailand Akibat Perubahan Iklim.  
*Kompas*. Retrieved September 18, 2011 from  
[http://internasional.kompas.com/read/2011/04/03/22010197/Banjir.Thaila  
nd.Akibat.Perubahan.Iklim](http://internasional.kompas.com/read/2011/04/03/22010197/Banjir.Thaila<br/>nd.Akibat.Perubahan.Iklim)

Koh Keng-Lian. (2009). *ASEAN Environmental Law, Policy and Governance  
Selected Documents* (Vol. 1). Singapore : World Scientific Publishing Co.  
Pte. Ltd.

Lasco, R. D,. (2010). Issues on Climate Change and Biodiversity in the Region. In  
Percy E. Sajise, Mariliza V. Ticsay, and Gil C. Saguitguit, Jr. (eds).  
*Moving Forward : Southeast Asian Perspectives on Climate Change and  
Biodiversity*. pp. 11-29 . Singapore: Institute of Southeast Asian Studies.

Lebel, L. & Steffen, W. (eds). (1998). *Global environmental change and  
sustainable development in Southeast Asia: Science plan for a SARC  
integrated studies*. Southeast Asian Regional Committee for START  
(SARCS). Retrieved September 15, 2011 in  
<http://www.sarcs.org/new/issp/ch1intro.htm>.

Lebel, Louis. (2009). The Global Environmental Change and Development Nexus  
in Southeast Asia. In Louis Lebel, Anond Snidvongs, Chen-Tung Arthur  
Chen & Rajesh Daniel (eds). *Critical States: Environmental Challenges to  
Development in Monsoon Southeast Asia*. pp. 3-17 . Malaysia: Strategic  
Information and Research Development.

- Letchumanan, Raman. (n.d.). *Is there an ASEAN Policy on climate change? : Analysis*, pp. 50-62. Retrieved November 4, 2011 from <http://www2.lse.ac.uk/IDEAS/publications/reports/pdf/SR004/ASEC.pdf>.
- Lian, Koh Kheng (2009). *ASEAN Environmental Law, Policy and Governance : Selected Documents*, Vol 1. New Jersey : World Scientific.
- Litta, Henriette. (2010). Environmental Challenges in Southeast Asia : Why is There So Little Regional Cooperation?. *Asian Journal of Public Affairs*, 3(1), p.76,-91. Retrieved November 21, 2011 from <http://www.spp.nus.edu.sg/ajpa/pdf/issue5/10%20Litta.pdf>.
- Manila Declaration on the ASEAN environment. (April 30, 1981). In *ASEAN Official Websites*. Retrieved November 5, 2011 from [www.aseansec.org/6077.htm](http://www.aseansec.org/6077.htm)
- Matthews, Emily. (2001). *Keadaan Hutan Indonesia*. Bogor : Forest Watch Indonesia & Global Forest Watch.
- McDowell, Mark A,. (1989). Development and the Environment in ASEAN. *Pacific Affairs* 62 (3).pp.307-329. Retrieved May 20, 2011 from <http://www.jstor.org/stable/2760625>.
- Murdiyarso,D., Lasco, R., Sheil, D., Wasrin, Upik R., Noordwijk, Meine van, & Meijaard, E. (2009). Land Transformation and its Consequences. In Louis Lebel, Anond Snidvongs, Chen-Tung Arthur Chen & Rajesh Daniel (eds). *Critical States: Environmental Challenges to Development in Monsoon Southeast Asia*. pp. 135-145 . Malaysia: Strategic Information and Research Development.
- Murdiyarso, Daniel. (July 25, 2011). Using Indonesian Forest. *Sustainable Management of Peatland Forests in Southeast Asia*. Retrieved November 25, 2011 from <http://www.aseanpeat.net/newsmaster.cfm?&menuid=11&action=view&retrieveid=15>

- Plevin, R., & Donnelly, D. (n.d.). *Converting Waste to Energy and Profit : tapioca Starch Power in Thailand*. Retrieved October 18, 2011 from [http://palangthai.org/en/docs/KWTE\\_REW.pdf](http://palangthai.org/en/docs/KWTE_REW.pdf).
- Qadri, S. Tahir (eds). (2001). *Fire, Smoke, and Haze : The ASEAN Response Strategy*. Manila: ADB. Retrieved November 21, 2011 from <http://www.aseansec.org/pdf/fsh.pdf>.
- Raustiala, Kal. (1997). States, NGOs, and international environmental institutions. *The International Studies Association*. 41 (4). pp. 719 – 740.
- Reus-Smit, Christian. (2004). *The Politics of International Law*. Cambridge : Cambridge University Press.
- Rodziana Mohamed Razali. (2011). *The Shortcomings the ASEAN's Legal Mechanism to Address Transboundary Haze Pollution and Proposals for Improvement*. Negeri Sembilan, Malaysia : USIM. Retrieved November 21, 2011 from [http://a10014931063.oinsite.cn/\\_d271634123.htm](http://a10014931063.oinsite.cn/_d271634123.htm).
- Ronnfeldt, Carsten F. (1997). Three Generations of Environment and Security Research. *Journal of Peace Research*. 34 (4), pp. 473-482.
- Sajise, Percy E., Ticsay, Mariliza V., Saguiguit, Gil C. Jr. (2010). *Moving Forward : Southeast Asian Perspectives on Climate Change and Biodiversity*. Singapore : Institute of Southeast Asian Studies.
- Seda, Maria,. (1993). Introduction. In Maria Seda (ed). *Environmental Management in ASEAN : Perspective on Critical Regional Issues*. Singapore : Institute of Southeast Asia Studies.
- Sheng, Y.K., & Lebel, Louis. (2009). Incomplete Urbanization. In Louis Lebel, Anond Snidvongs, Chen-Tung Arthur Chen & Rajesh Daniel (eds). *Critical States: Environmental Challenges to Development in Monsoon Southeast Asia*. pp. 35-50. Malaysia: Strategic Information and Research Development.

- Singapore Declaration of 1992*. Retrieved November 3, 2011 from <http://www.asean.org/5120.htm>.
- Southeast Asia Regional Report Asia Pacific Forestry Sector Outlook Study II. (2011). *Status and Trends in Forest and Forestry*. Bangkok : FAO. pp. 5-99. Retrieved October 9, 2011 from <http://www.fao.org/docrep/013/i1964e/i1964e01.pdf>.
- State of the World's Forests 2011*. (2011). Report from Food and Agricultural Organization of the UN in Rome. pp.1-179. Retrieved September 24, 2011 from <http://www.fao.org/docrep/013/i2000e/i2000e00.htm>.
- Sunaryo, Thomas. (n.d.). *Environmental Problems in Indonesia : Review*. Jakarta : Universitas Indonesia. Retrieved November 2, 2011 from <http://www.aic.gov.au/publications/previous%20series/proceedings/1-20/~media/publications/proceedings/12/sunaryo.ashx>
- Sunchindah, A., & Probosasi, G. (1999). ASEAN's Initiatives in Protected Areas Management. *ASEAN Official Website*. Retrieved October 30, 2011 from <http://www.asean.org/2820.htm>
- Tray, Simon. (2009). Institutional Challenges for Environmental Cooperation. In Louis Lebel, Anond Snidvongs, Chen-Tung Arthur Chen & Rajesh Daniel (eds). *Critical States: Environmental Challenges to Development in Monsoon Southeast Asia*. pp. 84-96 . Malaysia: Strategic Information and Research Development.
- Tray, Simon,. (2002). Fires and Haze in Southeast Asia. In Pamela J. Noda (ed). *Cross-Sectoral Partnership in Enhancing Human Security*. pp. 53-80. Tokyo: Japan Center for International Exchange. Retrieved May 20, 2011 from [http://www.jcie.org/researchpdfs/CrossSectoral/cross\\_tay.pdf](http://www.jcie.org/researchpdfs/CrossSectoral/cross_tay.pdf)
- Vasudeva, Gurnetta.(-) *Environmental Security : A South Asian Perspective*. Retrieved August 20, 2011 from <http://unpan1.un.org/intradoc/groups/public/documents/apcity/unpan015801.pdf>

- Vientiane Action Programme. (2004). In *ASEAN Official Websites*. pp.1-55,  
Retrieved November 5, 2011 from <http://www.aseansec.org/VAP-10th%20ASEAN%20Summit.pdf>.
- Wibisono, B. Kunto (eds). (November 4, 2010), Proyek REDD Australia-Indonesia Dapat Picu Konflik. *Antara News*. Retrieved November 26, 2011 from <http://www.antaranews.com/print/128888591/proyek-redd-australia-indonesia-dapat-picu-konflik>.
- Yap Kioe Sheng. (22-24 June 2011). *Urban Challenges in Southeast Asia*, this paper is presented at the 5<sup>th</sup> Asia-Pacific Urban Forum organized by the UN Economic and Social Commission for Asia and the Pacific (UN ESCAP). pp.1 -22. Retrieved September 15, 2011 in <http://www.unescap.org/apuf-5/documents/updates/Southeast-Asia-Second-Draft.pdf>
- Yuan, Luo. (May 20, 2011). Indonesia implements Moratorium on Deforestation. *ASEAN-China Free Trade Area Homepage*. Retrieved November 24, 2011 from <http://www.asean-cn.org/Item/2851.aspx>.
- Yuen, Belinda., & Kong, L,. (2009). Climate change and urban planning in Southeast Asia. *S.A.P.I.E.N.S.* 2(3).pp.1-11. Retrieved September 16, 2011 from <http://sapiens.revues.org/881.pdf>.
- Zhang, Yixin & Dudgeon, D. (2009). Impacts of Deforestation and Hydrological Changes on River Ecosystem. In Louis Lebel, Anond Snidvongs, Chen-Tung Arthur Chen & Rajesh Daniel (eds). *Critical States: Environmental Challenges to Development in Monsoon Southeast Asia*. pp.268-280 . Malaysia: Strategic Information and Research Development.
- Zuhri, Sepudin. (November 16, 2011). Produktivitas Hutan Industri Capai 362,5 Juta M3. *Bisnis Indonesia*. Retrieved November 24, 2011 from <http://www.bisnis.com/articles/produktivitas-hutan-industri-capai-362-5-juta-m3>.